RECEIVED

NOV 2 9 2001

TECH CENTER 1600/2900

Page 1

1636 #

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/446,024A

DATE: 11/16/2001
TIME: 14:53:47

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I446024A.raw**

ρ.S

ENTERED

```
 3 <110> APPLICANT: BESEME, Frederic
 4         BLOND, Jean-Luc
 5         BOUTON, Olivier
 6         MANDRAND, Bernard
 7         MALLET, Francois
 8         PERRON, Herve
10 <120> TITLE OF INVENTION: ENDOGENETIC RETROVIRAL SEQUENCES, ASSOCIATED WITH AUTOIMMUNE
DISEASES OR
11         WITH PREGNANCY DISORDERS
13 <130> FILE REFERENCE: 105045
15 <140> CURRENT APPLICATION NUMBER: US 09/446,024A
16 <141> CURRENT FILING DATE: 1999-12-16
18 <150> PRIOR APPLICATION NUMBER: PCT/FR98/01442
19 <151> PRIOR FILING DATE: 1998-07-06
21 <150> PRIOR APPLICATION NUMBER: FR 97/08815
22 <151> PRIOR FILING DATE: 1997-07-07
24 <160> NUMBER OF SEQ ID NOS: 53
26 <170> SOFTWARE: PatentIn version 3.1
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 1321
30 <212> TYPE: DNA
31 <213> ORGANISM: Human
33 <400> SEQUENCE: 1
34 caacaatcgg gatataaacc caggcattcg agctggcaac agcagccccc ctttgggtcc    60
36 cttccctttg tatgggagct gttttcatgc tatttcactc tattaaatct tgcaactgca   120
38 ctcttctggt ccatgtttct tacggctcga gctgagcttt tgctcaccgt ccaccactgc   180
40 tgtttgccac caccgcagac ctgccgctga ctcccatccc tctggatcct gcagggtgtc   240
42 cgctgtgctc ctgatccagc gaagcgccca ttgccgctcc caattgggct aaaggcttgc   300
44 cattgttcct gcacggctaa gtgcctgggt ttgttctaat tgagctgaac actagtcact   360
46 gggttccatg gttctcttct gtgacccacg gcttctaata gaactataac acttaccaca   420
48 tggcccaaga ttccattcct tggaatccgt gaggccaaga actccaggtc agagaatacg   480
50 aagcttgcca ccatcttgga agcggcctgc taccatcttg gaagtggttc accaccatct   540
52 tgggagctct gtgagcaagg accccc+cggt aacattttgg caaccacgaa cggacatcca   600
54 aagtgatggg aaacgttccc cgcaagacaa aaacgcccct aagacgtatt ctggaaaatt   660
56 gggaacaatt tgaccctcag acactaagaa agaaacgact tatattcttc tgcagtgccg   720
58 cctggcactc ctgagggaag tataaattat aacaccatct tacagctaga cctcttttgt   780
60 agaaaaggca aatggagtga agtgccataa gtacaaactt tcttttcatt aagagacaac   840
62 tcacaattat gtaaaaagtg tgatttatgc cctacaggaa gccttcagag tctacctccc   900
64 tatcccagca tccccgactc cttccccact taataaggac ccccttcaa cccaaatggt   960
66 ccaaaaggag atagacaaaa gggtaaacag tgaaccaaag agtgccaata ttccccaatt  1020
68 atgacccctc caagcagtgg gaggaagaga attcggccca gccagagtgc atgtgccttt  1080
70 ttctctccca gacttaaagc aaataaaaac agacttaggt aaattctcag ataaccctga  1140
72 tggctatatt ggtgtttttac aagggttagg acaattcttt gatctgacat ggagagatat  1200
74 atatgtcact gctaaatcag acactaaccc caaatgagag aagtgccacc ataactgcag  1260
76 cctgagagtt tggcgatctc tggtatctca gtcaggtcaa tgataggatg acaacagagg  1320
78 a                                                                  1321
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 2938
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/446,024A

DATE: 11/16/2001
TIME: 14:53:47

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I446024A.raw**

```
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Human
 86 <400> SEQUENCE: 2
 87 caacgacgga catccaaagt gatgggaaac gttccccgca agacaaaaac gcccctaaga      60
 89 cgtattctgg agaattggga ccaatttgac cctcagacac taagaaagaa acgacttata     120
 91 ttcttctgca gtgccgcctg gcactcctga gggaagtata aattataaca ccatcttaca     180
 93 gctagacttc ttttgtagaa aaggcaaatg gagtgaagtg ccataagtac aaactttctt     240
 95 ttcattaaga gacaactcac aattatgtaa aaagtgtgat ttatgcccta caggaagcct     300
 97 tcagagtcta cctccctatc ccagcatccc cgactccttc cccaactaat aaggaccccc     360
 99 cttcaaccca aatggtccaa aaggagatag acaaaaggggt aaacagtgaa ccaaagagtg     420
101 ccaatattcc ccaattatga cccctcccaa gcagtgggag gaagagattc ggcccagcca     480
103 gagtgcatgt gctttttctt ctcccagact taaagcaaat aaaaacagac ttaggtaaat     540
105 tctcagataa tcctgatggc tatattgatg ttttacaagg gttaggacaa ttctttgatc     600
107 tgacatggag agatataatg tcactgctaa atcagacact aaccccaaat gagagaagtg     660
109 ccaccataac tgcagcctga gagtttggcg atctctggta tctcagtcag gtcaatgata     720
111 ggatgacaac agaggaaaga gatgatcccc acagccagca agcagttccc agtctasacc     780
113 ctcattgggg acacagaaat cagtaacatg ggagattggt gctgcagaca tttgctaact     840
115 tgtgtgctac aaggactaag gaaaactacg aagaaaatct acgaattact caatgatgtc     900
117 caccataaca caggggaagg gaagaaaatc ctactgcctt tctggagaga ctaagggagg     960
119 cattgaggaa gcgtgcctct ctgtcacctg actcttctga aggccaacta atcttaaagc    1020
121 gtaagtttat cactcagtca gctgcagaca ttagaaaaaa cttcaaaagt ctgccgtagg    1080
123 cccggagcaa aacttagaaa ccctattgaa cttggcaacy tcggtttttt ataatagaga    1140
125 tcaggaggag caggcggaac aggacaaacg ggattaaaaa aaaggccacc gctttagtca    1200
127 tgaccctcag gcaagtggac tttggaggct ctggaaaagg gaaaagctgg gcaaattgaa    1260
129 tgcctaatag ggcttgcttc cagtgcggtc tacaaggaca ctttaaaaaa gattgtccaa    1320
131 gtagaagtaa gccgcccctt cgtccatgcc ccttatttca agggaatcac tggaaggccc    1380
133 actgccccag gggacaaaag tcttttgagt cagaagccac taaccagatg atccagcagc    1440
135 aggactgagg gtgcctgggg caagcgccat cccatgccat caccctcaca gagccctggg    1500
137 tatgcttgac cattgagggc caggaaggtt gtctcctgga cactggtgcg gtcttcttag    1560
139 tcttactctt ctgtcccgga caactgtcct ccagatctgt cactatctga gggggtccta    1620
141 agacgggcag tcactagata cttctcccag ccactaagtt atgactgggg agctttattc    1680
143 ttttcacatg cttttctaat tatgcttgaa agccccacta ccttgttagg gagagacatt    1740
145 ctagcaaaag caggggccat tatacacctg aacataggag aaggaacacc cgtttgttgt    1800
147 cccctgcttg aggaaggaat taatcctgaa gtctgggcaa cagaaggaca atatggacga    1860
149 gcaaagaatg cccgtcctgt tcaagttaaa ctaaaggatt ccacttcctt tccctaccaa    1920
151 aggcagtacc ccctcagacc caaggcccaa caaggattcc aaaagattgt taaggactta    1980
153 aaagcccaag gcttagtaaa accatgcata actccctgca gtaattccgt agtggattga    2040
155 ggaggcacag aaacccagtg gacagtggag ggttagtgca agatctcagg attatcaatg    2100
157 gaggccgttg tcctttttata cccagctgta cctagccctt atactgtgct ttcccaaata    2160
159 ccagaggaag cagagtggtt tacactcctg gaccttaagg atgccttctt ctgcatccct    2220
161 gtacatcctg actctcaatt cttgtttgcc tttgaagata cttcaaaccc aacatctcaa    2280
163 ctcacctgga ctgtttttacc ccaagggttc agggatagcc cccatctatt tggccaggca    2340
165 ttagcccaag acttgagcca atcctcatac ctggacactt gtccttcggt aggtggatga    2400
167 tttacttttg gccgcccatt cagaaacctt gtgccatcaa gccacccaag cgctcttcaa    2460
169 tttcctcgct acctgtggct acatggtttc caaaccaaag gctcaactct gctcacagca    2520
171 ggttacttag ggctaaaatt atccaaaggc accagggccc tcagtgagga acacatccag    2580
173 cctatactgg cttatcctca tcccaaaacc ctaaagcaac taaggggatt ccttggcgta    2640
175 ataggtttct gccgaaaatg gattcccagg tttggcgaaa tagccaggtc attaaataca    2700
177 ctaattaagg aaactcagaa agccaatacc catttagtaa gatggacaac tgaagtagaa    2760
```

RAW SEQUENCE LISTING   DATE: 11/16/2001
PATENT APPLICATION: US/09/446,024A   TIME: 14:53:47

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I446024A.raw**

```
179 gtggctttcc aggccctaac ccaagcccca gtgttaagtt tgccaacagg gcaagacttt    2820
181 tcttcatatg tcacagaaaa aacaggaata gctctaggag tccttacaca gatccgaggg    2880
183 atgagcttgc aacctgtggc gtacctgact aaggaaattg atgtagtggc aaagggtt      2938
186 <210> SEQ ID NO: 3
187 <211> LENGTH: 1422
188 <212> TYPE: DNA
189 <213> ORGANISM: Human
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (879)..(879)
194 <223> OTHER INFORMATION: n = any nucleotide
197 <220> FEATURE:
198 <221> NAME/KEY: misc_feature
199 <222> LOCATION: (1200)..(1200)
200 <223> OTHER INFORMATION: n = any nucleotide
203 <400> SEQUENCE: 3
204 tcagggatag cccccatcta tttggccagg cattagccca agacttgagt cagttatcat      60
206 acctggacac tcttgtcctt cagtatgtgg atgatttact tttagctgcc tgttcagaaa     120
208 ccttgtgcca tcaagccacc caagcactct taaatttcct cgccacctgt ggctacaagg     180
210 tttccaaaga gaagctcagc tctgctcaca gcaggttaaa tacttaggac taagattatc     240
212 caaaggcacc aaggccctca gtgaggaatg tatccagcct atactggctt atcctcatct     300
214 caaaaccccta aagcaactaa gagagttcct tggcataaca ggcttctgcc gaatatggat     360
216 tccccaggta tggcaaaata gccaggccat tatatacagt aattaaggaa actcagaaag     420
218 ccaatacccca tttaataaga tggatacctg aagccaaagt ggctttccag gcccctaaag     480
220 aaggccttaa acccaagtcc cagtgttaag cttgccaacg gggcaagact tttctttata     540
222 catcacagaa aaaaacagaa acagctctgg gagtccttac acaggtccaa gggacgagct     600
224 tgcaacccat ggcatacctg agtaaggaaa ctgatgtagt ggcaaagggt tggcttcatt     660
226 gtttatgggt agtggtggca gtagcagttg tagtatctga agcagttaaa ataatacagg     720
228 ggagagatct tactgtgtgg acatctcatg aggtgaacag catactcact gctaaaggag     780
230 acttgtggct gtcagacaac cgtttactta aatatcaggc tctattactt gaaaggccag     840
232 tgctgcaact gtgcacttgt gcaactctta acccagtcnc atttcttcca gacaatgaag     900
234 atagaatata actgtcaaca aataatttct caaacctatg ccactcgagg ggaccttcta     960
236 gaagttccct tgactgatcc tgaccttcaa cttgtatact gatggaagtt cctttgtaga    1020
238 aaaaggactt caaaagcggg gtatgcagtg gtcagtgata atggaatatt tgaaagtatc    1080
240 ccctcactcc aggaactagt gcttagctgg cagaactaat agccttcatt ggggcactag    1140
242 aattaggaga aggaaaaagg gtaaatatat atacagactc tgagtatgct cacctagtcn    1200
244 tccatgccca tgaggcaata tgcagagaaa gggaattcct aacttccgag ggaacaccta    1260
246 tcacacatca ggaagccatt aggagattat tactggcagt acagaaacct aaagaggtgg    1320
248 aagtcttaca ctgctggggt catcagaaag gaaagaaaag ggaaatagaa gggaattgcc    1380
250 aagcagatat tgaagcaaaa agagctgcaa ggcaggaccc tc                       1422
253 <210> SEQ ID NO: 4
254 <211> LENGTH: 2006
255 <212> TYPE: DNA
256 <213> ORGANISM: Human
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (305)..(305)
261 <223> OTHER INFORMATION: n = any nucleotide
264 <400> SEQUENCE: 4
```

RAW SEQUENCE LISTING   DATE: 11/16/2001
PATENT APPLICATION: US/09/446,024A   TIME: 14:53:47

Input Set : A:\es.txt
Output Set: N:\CRF3\11162001\I446024A.raw

```
265 atgcagtggt cagtgataat ggaatacttg aaagtaatcc cctcactcca ggaactagtg   60
267 ctcagctagc agaactaata gccctcactt gggcactaga attaggagaa gaaaaaaggg  120
269 caaatatata tacagactct aaatatgctt acctagtcct ccatgcccat gcagcaatat  180
271 ggaaagaaag ggaattccta acttctgaga gaacacctat caaacatcag gaagccatta  240
273 ggaaattatt attggctgta cagaaaccta aagaggtggc agtcttacac tgccggggtc  300
275 atcanaaagg aaaggaaagg gaaaatactt ttgcctgcaa ctatccaatg gaaattactt  360
277 aaaacccttc atcaaacctt tcacttaggc atcgatagca cccatcaaat ggccaaatca  420
279 ttatttactg gaccaggcct tttcaaaact atcaagcaaa tattcagggc ctgtgaattg  480
281 tgccaaaaaa ataatcccct gcctcatcgc caagctcctt caggaaaaca aaaaacaggc  540
283 cattaccctg aaaaaaactg gcaactgatt ttacccacaa gcccaaacct cagggatttc  600
285 agtatctact agtctgggta aatactttca cgggttgggc aaaggccttc ccctgtagga  660
287 cagaaaaggc ccaagaggta ataaaggcac tagttcatga ataattccc agattcggac   720
289 ttccccgagg cttacagagt gacaatagcc ctgctttcca ggccacagta acccagggag  780
291 tatcccaggc gttaggtata cgatatcact tacactgcgc ctgaaggcca cagtcctcag  840
293 ggaaggtcga gaaaatgaat gaaatactca aaggacatct aaaaaagcaa acccaggaaa  900
295 cccacctcac atggcctgct ctgttgccta tagccttaaa aagaatctgc aactttcccc  960
297 aaaaagcagg acttagccca tacgaaatgc tgtatggaag gcccttcata accaatgacc 1020
299 ttgtgcttga cccaagacag ccaacttagt tgcagacatc acctccttag ccaaatatca 1080
301 acaagttctt aaaacattac aaggaaccta tccctgagaa gagggaaaag aactattcca 1140
303 cccttgtgac atggtattag tcaagtccct tctctctaat tccccatccc tagatacatc 1200
305 ctgggaagga ccctacccag tcattttatt taccccaact gcggttaaag tggctggagt 1260
307 ggtcttggat acatcacact tgagtcaaat cctggatact gccaaaggaa cctgaaaatc 1320
309 caggagacaa cgctagctat tcctgtgaac ctctagagga tttgcgcctg ctcttcaaac 1380
311 aacaaccagg aggaaagtaa ctaaaatcat aaatccccca tggccctccc ttatcatatt 1440
313 tttctcttta ctgttctttt accctctttc actctcactg caccccctcc atgccgctgt 1500
315 atgaccagta gctcccctta ccaagagttt ctatggagaa tgcagcgtcc cggaaatatt 1560
317 gatgccccat cgtataggag tctttctaag ggaacccca ccttcactgc ccacacccat 1620
319 atgccccgca actgctatca ctctgccact ctttgcatgc atgcaaatac tcattattgg 1680
321 acaggaaaaa tgattaatcc tagttgtcct ggaggacttg gagtcactgt ctgttggact 1740
323 tacttcaccc aaactggtat gtctgatggg ggtggagttc aagatcaggc aagagaaaaa 1800
325 catgtaaaag aagtaatctc ccaactcacc cgggtacatg gcacctctag ccctacaaag 1860
327 gactagatct ctcaaaacta catgaaaccc tccgtaccca tactcgcctg gtaagcctat 1920
329 ttaataccac cctcactggg ctccatgagg tctcggccca aaaccctact aactgttgga 1980
331 tatgcctccc cctgaacttc aagcca                                       2006
334 <210> SEQ ID NO: 5
335 <211> LENGTH: 1948
336 <212> TYPE: DNA
337 <213> ORGANISM: Human
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (84)..(84)
342 <223> OTHER INFORMATION: n = any nucleotide
345 <220> FEATURE:
346 <221> NAME/KEY: misc_feature
347 <222> LOCATION: (193)..(193)
348 <223> OTHER INFORMATION: n = any nucleotide
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (241)..(241)
```

RAW SEQUENCE LISTING   DATE: 11/16/2001
PATENT APPLICATION: US/09/446,024A   TIME: 14:53:47

Input Set : A:\es.txt
Output Set: N:\CRF3\11162001\I446024A.raw

```
354 <223> OTHER INFORMATION: n = any nucleotide
357 <400> SEQUENCE: 5
358 actgcactct tctggtccat gtttcttacg gctcgagctg agcttttgct caccgtccac    60
360 cactgctgtt tgccaccacc gcanacctgc cgctgactcc catccctctg gatcctgcag   120
362 ggtgtccgct gtgctcctga tccagcgagg cgcccattgc cgctcccaat tgggctaaag   180
364 gcttgccatt gtncctgcac ggctaagtgc ctgggtttgt tctaattgag ctgaacacta   240
366 ntcactgggt tccatggttc tcttctgtga cccacggctt ctaatagaac tataacactt   300
368 accacatggc ccaagattcc attccttgga atccgtgagg gcaagaactc caggtcagag   360
370 aatacgaggc ttgccaccat cttggaagcg gcctgctacc atcttggaag tggttcacca   420
372 ccatcttggg agctctgtga gcaaggaccc cccggtaaca ttttggcaac cacgaacgga   480
374 catccaaagt gatacatcct gggaaggacc ctacccagtc attttatcta ccccaactgc   540
376 ggttaaagtg gctggagtgg agtcttggat acatcacact tgagtcaaat cctggatact   600
378 gccaaaggaa cctgaaaatc caggagacaa cgctagctat tcctgtgaac ctctagagga   660
380 tttgcgcctg ctcttcaaac aacaaccagg aggaaagtaa ctaaaatcat aaatccccat   720
382 ggccctccct tatcatattt ttctctttac tgttgtttca ccctctttca ctctcactgc   780
384 accccctcca tgccgctgta tgaccagtag ctcccttac caagagtttc tatggagaat   840
386 gcagcgtccc ggaaatattg atgccccatc gtataggagt ctttgtaagg gaaccccac    900
388 cttcactgcc cacacccata tgccccgcaa ctgctatcac tctgccactc tttgcatgca   960
390 tgcaaatact cattattgga caggaaaaat gattaatcct agttgtcctg gaggacttgg  1020
392 agtcactgtc tgttggactt acttcaccca aactggtatg tctgatgggg gtggagttca  1080
394 agatcaggca agagaaaaac atgtaaaaga agtaatctcc caactcaccc gggtacatgg  1140
396 cacctctagc ccctacaaag gactagatct ctcaaaacta catgaaaccc tccgtaccca  1200
398 tactcgcctg gtaagcctat ttaataccac cctcactggg ctccatgagg tctcggccca  1260
400 aaaccctact aactgttgga tatgcctccc cctgaacttc aggccatatg tttcaatccc  1320
402 tgtacctgaa caatggaaca acttcagcac agaaataaac accacttccg ttttagtagg  1380
404 acctcttgtt tccaatctgg aaataaccca tacctcaaac ctcacctgtg taaaatttag  1440
406 caatactaca tacacaacca actcccaatg catcaggtgg gtaactcctc ccacacaaat  1500
408 agtctgccta ccctcaggaa tattttttgt ctgtggtacc tcagcctatc gttgtttgaa  1560
410 tggctcttca gaatctatgt gcttcctctc attcttagtg ccccctatgg ccatctacac  1620
412 tgaacaagat ttatacagtt atgtcatatc taagccccgc aacaaaagag tacccattct  1680
414 tcctttttgtt ataggagcag gagtgctagg tgcactaggt actggcattg gcggtatcac  1740
416 aacctctact cagttctact acaaactatc tcaagaacta aatggggaca tggaacgggt  1800
418 cgccgactcc ctggtcacct tgcaagatca acttaactcc ctagcagcag tagtccttca  1860
420 aaatcgaaga gctttagact tgctaaccgc tgaaagaggg ggaacctgtt tattttttagg  1920
422 ggaagaatgc tgttattatg ttaatcaa                                      1948
425 <210> SEQ ID NO: 6
426 <211> LENGTH: 1136
427 <212> TYPE: DNA
428 <213> ORGANISM: Human
430 <400> SEQUENCE: 6
431 ccatggccat ctacactgaa caagatttat acagttatgt catatctaag ccccgcaaca    60
433 aaagagtacc cattcttcct tttgttatag gagcaggagt gctaggtgca ctaggtactg   120
435 gcattggcgg tatcacaacc tctactcagt tctactacaa actatctcaa gaactaaatg   180
437 gggacatgga acgggtcgcc gactccctgg tccttgca agatcaactt aactccctag   240
439 cagcagtagt ccttcaaaat cgaagagctt tagactcgct aaccgctgaa agaggggaa   300
441 cctgtttatt tttaggggaa gaatgctgtt attatgttaa tcaatccgga atcgtcactg   360
443 agaaagttaa agaaattcga gatcgaatac aacgtagagc agaagagctt cgaaacactg   420
445 gaccctgggg cctcctcagc caatggatgc cctggattct cccctctta ggacctctag   480
447 cagctataat attgctactc ctctttggac cctgtatctt aacctcctt gttaactttg   540
```

VERIFICATION SUMMARY   DATE: 11/16/2001
PATENT APPLICATION: **US/09/446,024A**   TIME: 14:53:48

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I446024A.raw**

```
L:232  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:242  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:275  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:360  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:364  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:366  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:585  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:797  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:799  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:827  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:833  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:912  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:916  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:948  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:950  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:978  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:984  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:2232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:2236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:2238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
```